

Figure 1

Proinsulin	C-peptide
Ins_Human	EAEDLQVGQVELGOGPGAGSLQPLALEGSLQ (SEQ ID NO. 1)
Ins_Pantr (Chimpanzee)	EAEDLQVGQVELGGPGAGSLQPLALEGSLQ (SEQ ID NO. 9)
Ins_Aotr (Night monkey)	EAEDLQVGQVELGGGSITGSLPPLEGPMQ (SEQ ID NO. 10)
Ins_Macpa (Crabeating maoaque)	EAEDPQVGQVELCSGGPGAGSLQPLALEJSLQ (SEQ ID NO. 11)
Ins_Cera b (Green monkey)	EAEDPQVGQVELGGPGAGSLQPLALEGSLQ (SEQ ID NO. 12)
Ins_Pig	EAENPQAGAVELGGGLGGLQALALEGPPQ (SEQ ID NO. 13)
Ins_Boven	EVEGPQVGCALELAGGPGAGGLEGPPQ (SEQ ID NO. 14)
Ins_Horse	EAEDPQVGEVELGGPGGLQPLALAGPQQ (SEQ ID NO. 15)
Ins_sheep	EVEGPQVGCALELAGGPGAGGLEGPPQ (SEQ ID NO. 16)
Ins_Canpa (dog)	EVEDLQVRDVELAGAPGEGGLQPLALEGALQ (SEQ ID NO. 17)
Ins_Rabbit	EVE LQVGQAEELGOGPGAGGLQPSALELALQ (SEQ ID NO. 18)
Ins_1_Rat	EVEDPQYPQLEGGPEAGDLQTLALEVARQ (SEQ ID NO. 19)
Ins2_Rat	EVEDPQVAQLELGGPGAGDLQTLALEVARQ (SEQ ID NO. 20)
Ins_Rodsp (rodent sp)	EVEDPQVGQVELGAGPGAGSEQTLALEVARQ (SEQ ID NO. 21)
Ins1_mouse	EVEDPQVEQLELGGSPGDLQTLALEVARQ (SEQ ID NO. 22)
Ins2_Mouse	EVEDPQVAQLELGGPGAGDLQTLALEVAQQ (SEQ ID NO. 23)
Ins_Caypo (guinea pig)	ELEDPQYEQTELGMGLGAGGLQPLALEMALQ (SEQ ID NO. 24)

Ins_Crib	GYEDPQVAQLELGOGPAGDLQTLALEVAQQ (SEQ ID NO. 25)
Ins_Psaob	GYDDPQMPQLELGGSPGAGDLRALALEVARQ (SEQ ID NO. 26)
Ins_Ocide	ELEDLQVEQAEGLGLEAGGLQPSALEMILQ (SEQ ID NO. 27)
Q62543 (western wild mouse)	GGPGAGDLQTLALEVAQQ (SEQ ID NO. 28)
Q62542 (western wild mouse)	GSPGDLQTLALEVARQ (SEQ ID NO. 29)
Ins_Anap1 (domestic duck)	DVEQPLVNGPLKGEVGELPPQHEEYQXX (SEQ ID NO. 30)
Ins_Chick (chicken)	DVEQPLYSSPLKGEAGYLPPQQEEYEKV (SEQ ID NO. 31)

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Figure 2

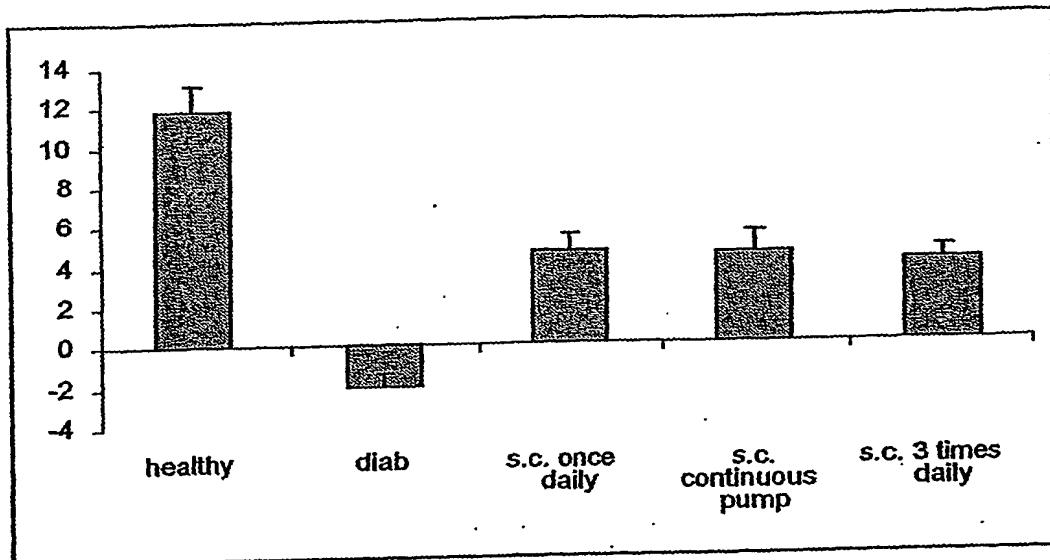
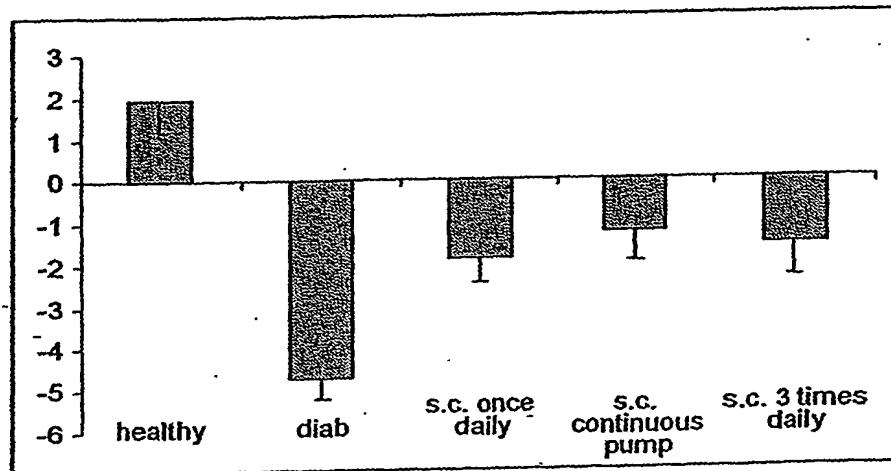


Figure 3



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Figure 4

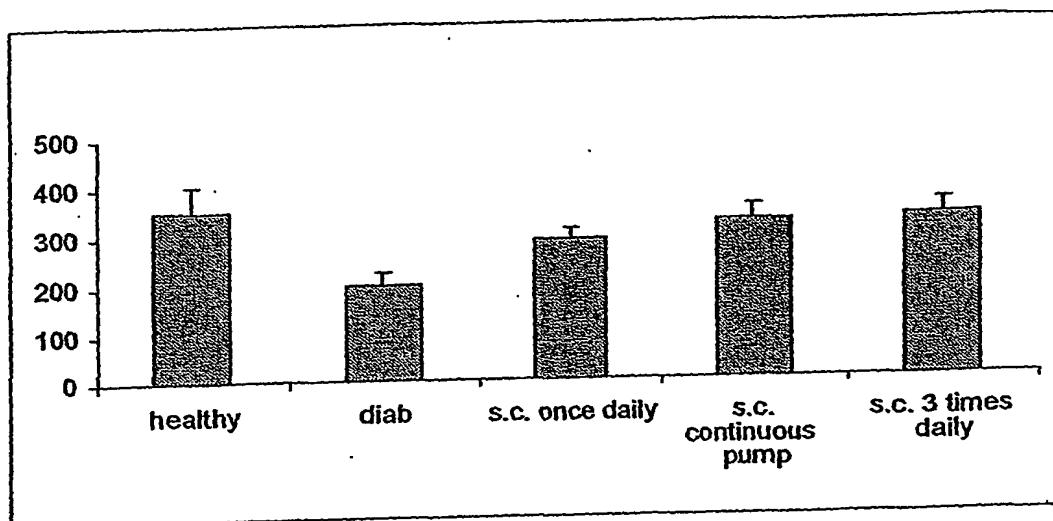


Figure 5

Teased fiber assessment of nodal and axonal morphometric changes in healthy controls and diabetic rats receiving C-peptide treatment for 8 weeks with different administration regimens

Frequency of fibers (%) showing	Non-Diabetic Controls	Diabetic untreated	C-peptide Treatment		
			Once Daily	Continuous infusion	Three times daily
Paranodal swelling	1.03 ± 0.16	7.60 ± 0.37	2.49 ± 0.15*	1.53 ± 0.18	1.78 ± 0.16
Paranodal demyelination	0.09 ± 0.08	2.22 ± 0.12	1.01 ± 0.13*	0.24 ± 0.10	0.45 ± 0.16
Excessive wrinkling	0.68 ± 0.07	3.63 ± 0.35	0.57 ± 0.14*	0.55 ± 0.11	0.58 ± 0.10
Axonal degeneration	0.30 ± 0.17	1.84 ± 0.39	0.43 ± 0.16*	0.30 ± 0.10	0.38 ± 0.19

* Mean values ± SE are given

Significantly lower than the corresponding value for untreated diabetic animals, PC 0.01